

Jan Seuntjens

List of Publications by Year in descending order

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176
papers

7,193
citations

76294

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66879

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177
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177
docs citations

177
times ranked

5046
citing authors

#	ARTICLE	IF	CITATIONS
1	Report of the AAPM Task Group No. 105: Issues associated with clinical implementation of Monte Carlo-based photon and electron external beam treatment planning. <i>Medical Physics</i> , 2007, 34, 4818-4853.	1.6	552
2	Precise radiochromic film dosimetry using a flat-bed document scanner. <i>Medical Physics</i> , 2005, 32, 2245-2253.	1.6	482
3	A new formalism for reference dosimetry of small and nonstandard fields. <i>Medical Physics</i> , 2008, 35, 5179-5186.	1.6	462
4	Radiomics strategies for risk assessment of tumour failure in head-and-neck cancer. <i>Scientific Reports</i> , 2017, 7, 10117.	1.6	391
5	Monte Carlo modelling of external radiotherapy photon beams. <i>Physics in Medicine and Biology</i> , 2003, 48, R107-R164.	1.6	333
6	Dosimetric properties of improved GafChromic films for seven different digitizers. <i>Medical Physics</i> , 2004, 31, 2392-2401.	1.6	227
7	Addendum to the AAPM's TG51 protocol for clinical reference dosimetry of high-energy photon beams. <i>Medical Physics</i> , 2014, 41, 041501.	1.6	227
8	Dosimetry of small static fields used in external photon beam radiotherapy: Summary of TRS483, the IAEA's AAPM international Code of Practice for reference and relative dose determination. <i>Medical Physics</i> , 2018, 45, e1123-e1145.	1.6	179
9	Accurate skin dose measurements using radiochromic film in clinical applications. <i>Medical Physics</i> , 2006, 33, 1116-1124.	1.6	169
10	Deep learning in head & neck cancer outcome prediction. <i>Scientific Reports</i> , 2019, 9, 2764.	1.6	145
11	Ionization chamber-based reference dosimetry of intensity modulated radiation beams. <i>Medical Physics</i> , 2004, 31, 2454-2465.	1.6	100
12	Absorption spectra time evolution of EBT2 model GAFCHROMIC film. <i>Medical Physics</i> , 2010, 37, 2207-2214.	1.6	92
13	Monte Carlo role in radiobiological modelling of radiotherapy outcomes. <i>Physics in Medicine and Biology</i> , 2012, 57, R75-R97.	1.6	90
14	A deformable phantom for 4D radiotherapy verification: Design and image registration evaluation. <i>Medical Physics</i> , 2008, 35, 1094-1102.	1.6	86
15	Detector dose response in megavoltage small photon beams. I. Theoretical concepts. <i>Medical Physics</i> , 2015, 42, 6033-6047.	1.6	85
16	Head and neck squamous cell carcinoma: prediction of cervical lymph node metastasis by dual-energy CT texture analysis with machine learning. <i>European Radiology</i> , 2019, 29, 6172-6181.	2.3	79
17	A comparative study of small field total scatter factors and dose profiles using plastic scintillation detectors and other stereotactic dosimeters: The case of the CyberKnife. <i>Medical Physics</i> , 2013, 40, 011719.	1.6	78
18	Development and validation of a BEAMnrc component module for accurate Monte Carlo modelling of the Varian dynamic Millennium multileaf collimator. <i>Physics in Medicine and Biology</i> , 2003, 48, 4045-4063.	1.6	72

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19	Ionization chamber gradient effects in nonstandard beam configurations. <i>Medical Physics</i> , 2009, 36, 4654-4663.	1.6	72
20	Paracrine Effects of Bone Marrow Soup Restore Organ Function, Regeneration, and Repair in Salivary Glands Damaged by Irradiation. <i>PLoS ONE</i> , 2013, 8, e61632.	1.1	70
21	Photon absorbed dose standards. <i>Metrologia</i> , 2009, 46, S39-S58.	0.6	68
22	Physical aspects of dynamic stereotactic radiosurgery with very small photon beams (1.5 and 3 mm in) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	67
23	Reference radiochromic film dosimetry in kilovoltage photon beams during CBCT image acquisition. <i>Medical Physics</i> , 2010, 37, 1083-1092.	1.6	65
24	Absorption spectroscopy of EBT model GAFCHROMICâ„¢ film. <i>Medical Physics</i> , 2006, 34, 112-118.	1.6	64
25	A direct voxel tracking method for four-dimensional Monte Carlo dose calculations in deforming anatomy. <i>Medical Physics</i> , 2006, 33, 434-445.	1.6	64
26	Linearization of doseâ€“response curve of the radiochromic film dosimetry system. <i>Medical Physics</i> , 2012, 39, 4850-4857.	1.6	64
27	Absorbed-dose beam quality conversion factors for cylindrical chambers in high energy photon beams. <i>Medical Physics</i> , 2000, 27, 2763-2779.	1.6	62
28	Dosimetric and microdosimetric study of contrast-enhanced radiotherapy with kilovolt x-rays. <i>Physics in Medicine and Biology</i> , 2005, 50, 3555-3569.	1.6	62
29	Absorbed dose to water reference dosimetry using solid phantoms in the context of absorbed-dose protocols. <i>Medical Physics</i> , 2005, 32, 2945-2953.	1.6	61
30	Thirdâ€“party brachytherapy source calibrations and physicist responsibilities: Report of the AAPM Low Energy Brachytherapy Source Calibration Working Group. <i>Medical Physics</i> , 2008, 35, 3860-3865.	1.6	61
31	The Role of HMGB1 in Radioresistance of Bladder Cancer. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 471-479.	1.9	58
32	Validation of Monte Carlo calculated surface doses for megavoltage photon beams. <i>Medical Physics</i> , 2005, 32, 286-298.	1.6	57
33	Monte Carlo study of correction factors for Spencer-Attix cavity theory at photon energies at or above 100 keV. <i>Medical Physics</i> , 2000, 27, 1804-1813.	1.6	56
34	Detector dose response in megavoltage small photon beams. II. Pencil beam perturbation effects. <i>Medical Physics</i> , 2015, 42, 6048-6061.	1.6	54
35	Consistency test of the electron transport algorithm in the GEANT4 Monte Carlo code. <i>Physics in Medicine and Biology</i> , 2005, 50, 681-694.	1.6	52
36	A protocol for EBT3 radiochromic film dosimetry using reflection scanning. <i>Medical Physics</i> , 2014, 41, 122101.	1.6	49

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37	Radiochromic film dosimetry of HDR ¹⁹² Ir source radiation fields. Medical Physics, 2011, 38, 6074-6083.	1.6	46
38	Dosimetric evaluation of the clinical implementation of the first commercial IMRT Monte Carlo treatment planning system at 6 MV. Medical Physics, 2004, 31, 2771-2779.	1.6	44
39	Bayesian network ensemble as a multivariate strategy to predict radiation pneumonitis risk. Medical Physics, 2015, 42, 2421-2430.	1.6	43
40	Water calorimetry and ionization chamber dosimetry in an 85-MeV clinical proton beam. Medical Physics, 1996, 23, 643-650.	1.6	42
41	Characterization of calibration curves and energy dependence GafChromic TM XR-QA2 model based radiochromic film dosimetry system. Medical Physics, 2014, 41, 062105.	1.6	42
42	Influence of focal spot on characteristics of very small diameter radiosurgical beams. Medical Physics, 2008, 35, 3317-3330.	1.6	41
43	Direct measurement of absorbed dose to water in HDR I192r brachytherapy: Water calorimetry, ionization chamber, Gafchromic film, and TG-43. Medical Physics, 2010, 37, 1924-1932.	1.6	41
44	Performance of Knowledge-Based Radiation Therapy Planning for the Glioblastoma Disease Site. International Journal of Radiation Oncology Biology Physics, 2017, 99, 1021-1028.	0.4	41
45	An artificial intelligence framework integrating longitudinal electronic health records with real-world data enables continuous pan-cancer prognostication. Nature Cancer, 2021, 2, 709-722.	5.7	41
46	On the consistency of Monte Carlo track structure DNA damage simulations. Medical Physics, 2014, 41, 121708.	1.6	38
47	Energy modulated electron therapy using a few leaf electron collimator in combination with IMRT and 3D-CRT: Monte Carlo-based planning and dosimetric evaluation. Medical Physics, 2005, 32, 2976-2986.	1.6	37
48	Measuring neutron spectra in radiotherapy using the nested neutron spectrometer. Medical Physics, 2015, 42, 6162-6169.	1.6	37
49	Correction factors and performance of a C sealed water calorimeter. Physics in Medicine and Biology, 1999, 44, 627-646.	1.6	36
50	Dependence of overall correction factor of a cylindrical ionization chamber on field size and depth in medium-energy x-ray beams. Medical Physics, 1996, 23, 1789-1796.	1.6	35
51	Quantification of accuracy of the automated nonlinear image matching and anatomical labeling (ANIMAL) nonlinear registration algorithm for 4D CT images of lung. Medical Physics, 2007, 34, 4409-4421.	1.6	35
52	Mesenchymal stem cell transplantation to promote bone healing. Journal of Orthopaedic Research, 2012, 30, 1183-1189.	1.2	35
53	Creating Robust Predictive Radiomic Models for Data From Independent Institutions Using Normalization. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 210-215.	2.7	35
54	Verification of absorbed doses determined with thimble and parallel-plate ionization chambers in clinical electron beams using ferrous sulphate dosimetry. Medical Physics, 1994, 21, 37-44.	1.6	32

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55	PD-1/PD-L1 Immune Checkpoint Inhibition with Radiation in Bladder Cancer: <i>In Situ</i> and Abscopal Effects. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 211-220.	1.9	32
56	Study of dosimetry consistency for kilovoltage x-ray beams. <i>Medical Physics</i> , 1998, 25, 2376-2384.	1.6	31
57	Evaluation of EBT-2 model GAFCHROMIC [®] film performance in water. <i>Medical Physics</i> , 2010, 37, 3687-3693.	1.6	31
58	Design and dosimetry of a few leaf electron collimator for energy modulated electron therapy. <i>Medical Physics</i> , 2007, 34, 4782-4791.	1.6	30
59	Radiochromic film based dosimetry of image-guidance procedures on different radiotherapy modalities. <i>Journal of Applied Clinical Medical Physics</i> , 2014, 15, 229-239.	0.8	30
60	Radioluminescence studies of colloidal oleate-capped $\text{Na}(\text{Gd,Lu})\text{F}_4:\text{Ln}^{3+}$ nanoparticles (Ln = Ce, Eu, Tb). <i>Nanoscale</i> , 2018, 10, 7821-7832.	2.8	30
61	Development and Validation of Multiparametric MRI-based Radiomics Models for Preoperative Risk Stratification of Endometrial Cancer. <i>Radiology</i> , 2022, 305, 375-386.	3.6	30
62	Beam modeling and beam model commissioning for Monte Carlo dose calculation-based radiation therapy treatment planning: Report of AAPM Task Group 157. <i>Medical Physics</i> , 2020, 47, e1-e18.	1.6	29
63	Comparison of modulated electron radiotherapy to conventional electron boost irradiation and volumetric modulated photon arc therapy for treatment of tumour bed boost in breast cancer. <i>Radiotherapy and Oncology</i> , 2011, 100, 253-258.	0.3	28
64	On mixed electron-photon radiation therapy optimization using the column generation approach. <i>Medical Physics</i> , 2017, 44, 4287-4298.	1.6	28
65	An investigation into the INTRABEAM miniature x-ray source dosimetry using ionization chamber and radiochromic film measurements. <i>Medical Physics</i> , 2018, 45, 4274-4286.	1.6	28
66	Monte Carlo based modulated electron beam treatment planning using a few-leaf electron collimator-feasibility study. <i>Physics in Medicine and Biology</i> , 2005, 50, 847-857.	1.6	26
67	Investigation of three radiation detectors for accurate measurement of absorbed dose in nonstandard fields. <i>Medical Physics</i> , 2010, 37, 2404-2413.	1.6	26
68	Identification of the active components in Bone Marrow Soup: a mitigator against irradiation-injury to salivary glands. <i>Scientific Reports</i> , 2015, 5, 16017.	1.6	26
69	RapidBrachyMCTPS: a Monte Carlo-based treatment planning system for brachytherapy applications. <i>Physics in Medicine and Biology</i> , 2018, 63, 175007.	1.6	26
70	Optically Stimulated Nanodosimeters with High Storage Capacity. <i>Nanomaterials</i> , 2019, 9, 1127.	1.9	26
71	Perspective: lanthanide-doped upconverting nanoparticles. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 012004.	1.1	26
72	Kinetics of [methyl- ^{11}C]Thymidine in Patients with Squamous Cell Carcinoma of the Head and Neck. <i>Acta Oncologica</i> , 1996, 35, 737-741.	0.8	25

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73	Direct absorbed dose to water determination based on water calorimetry in scanning proton beam delivery. <i>Medical Physics</i> , 2010, 37, 3541-3550.	1.6	25
74	Use of a control film piece in radiochromic film dosimetry. <i>Physica Medica</i> , 2016, 32, 202-207.	0.4	25
75	4D doseâ€position verification in radiation therapy using the RADPOS system in a deformable lung phantom. <i>Medical Physics</i> , 2011, 38, 179-187.	1.6	24
76	Aerrow: A probeâ€format graphite calorimeter for absolute dosimetry of highâ€energy photon beams in the clinical environment. <i>Medical Physics</i> , 2018, 45, 414-428.	1.6	23
77	Determination of absorbed dose to water from a miniature kilovoltage x-ray source using a parallel-plate ionization chamber. <i>Physics in Medicine and Biology</i> , 2018, 63, 015016.	1.6	22
78	An absorbed dose to water standard for HDR I192r brachytherapy sources based on water calorimetry: Numerical and experimental proof-of-principle. <i>Medical Physics</i> , 2007, 34, 4957-4961.	1.6	21
79	A Monte Carlo method to evaluate the impact of positioning errors on detector response and quality correction factors in nonstandard beams. <i>Physics in Medicine and Biology</i> , 2011, 56, 2617-2634.	1.6	21
80	Experimental determination of electron source parameters for accurate Monte Carlo calculation of large field electron therapy. <i>Physics in Medicine and Biology</i> , 2005, 50, 779-786.	1.6	20
81	Dose homogeneity specification for reference dosimetry of nonstandard fields. <i>Medical Physics</i> , 2011, 39, 407-414.	1.6	20
82	Development of a graphite probe calorimeter for absolute clinical dosimetry. <i>Medical Physics</i> , 2013, 40, 020701.	1.6	20
83	Proton and light ion RBE for the induction of direct DNA double strand breaks. <i>Medical Physics</i> , 2016, 43, 2131-2140.	1.6	20
84	Synthesis and characterization of biologically stable, doped LaF3 nanoparticles co-conjugated to PEG and photosensitizers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 329, 26-34.	2.0	20
85	Local Correlation Between Monte-Carlo Dose and Radiation-Induced Fibrosis in Lung Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 70, 921-930.	0.4	19
86	Characterization of cylindrical ionization chambers for patient specific IMRT QA. <i>Journal of Applied Clinical Medical Physics</i> , 2009, 10, 241-251.	0.8	19
87	Tracking of Mesenchymal Stem Cells with Fluorescence Endomicroscopy Imaging in Radiotherapy-Induced Lung Injury. <i>Scientific Reports</i> , 2017, 7, 40748.	1.6	19
88	Can dose outside the PTV influence the risk of distant metastases in stage I lung cancer patients treated with stereotactic body radiotherapy (SBRT)?. <i>Radiotherapy and Oncology</i> , 2018, 128, 513-519.	0.3	19
89	Comparing calibration methods of electron beams using plane-parallel chambers with absorbed-dose to water based protocols. <i>Medical Physics</i> , 2002, 29, 284-289.	1.6	18
90	Toward automatic field selection and planning using Monte Carlo-based direct aperture optimization in modulated electron radiotherapy. <i>Physics in Medicine and Biology</i> , 2010, 55, 4563-4576.	1.6	18

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91	Direct aperture optimization for FLECâ€based MERT and its application in mixed beam radiotherapy. Medical Physics, 2012, 39, 4820-4831.	1.6	18
92	On charged particle equilibrium violation in external photon fields. Medical Physics, 2012, 39, 1473-1480.	1.6	17
93	Direct measurement of electron beam quality conversion factors using water calorimetry. Medical Physics, 2015, 42, 6357-6368.	1.6	17
94	The immune mediated role of extracellular HMGB1 in a heterotopic model of bladder cancer radioresistance. Scientific Reports, 2019, 9, 6348.	1.6	17
95	Re-evaluation of the dose to the cyst wall in P-32 radiocolloid treatments of cystic brain tumors using the Dose-Point-Kernel and Monte Carlo methods. Medical Physics, 2003, 30, 2475-2481.	1.6	16
96	Development of a water calorimetry-based standard for absorbed dose to water in HDR I192r brachytherapy. Medical Physics, 2010, 37, 1914-1923.	1.6	16
97	Experimental analysis of general ion recombination in a liquidâ€filled ionization chamber in highâ€energy photon beams. Medical Physics, 2013, 40, 062104.	1.6	16
98	Experimental investigation on the accuracy of plastic scintillators and of the spectrum discrimination method in small photon fields. Medical Physics, 2017, 44, 654-664.	1.6	16
99	Comparison of Radiomics Models Built Through Machine Learning in a Multicentric Context With Independent Testing: Identical Data, Similar Algorithms, Different Methodologies. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 192-200.	2.7	16
100	An Empirical Approach for Avoiding False Discoveries When Applying High-Dimensional Radiomics to Small Datasets. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 201-209.	2.7	16
101	Novel knowledge-based treatment planning model for hypofractionated radiotherapy of prostate cancer patients. Physica Medica, 2020, 69, 36-43.	0.4	16
102	Comments on 'Ionization chamber dosimetry of small photon fields: a Monte Carlo study on stopping-power ratios for radiosurgery and IMRT beams'. Physics in Medicine and Biology, 2003, 48, L43-L45.	1.6	15
103	Determination of factors for ion chambers used in the calibration of Leksell Gamma Knife Perfexion model using EGSnrc and PENLOPE Monte Carlo codes. Medical Physics, 2018, 45, 1748-1757.	1.6	15
104	Comparison of dosimetric standards of Canada and France for photons at ^{60}Co and higher energies. Physics in Medicine and Biology, 2001, 46, 2119-2142.	1.6	14
105	An investigation into the use of MMCTP to tune accelerator source parameters and testing its clinical application. Journal of Applied Clinical Medical Physics, 2013, 14, 3-14.	0.8	14
106	A comparative analysis of longitudinal computed tomography and histopathology for evaluating the potential of mesenchymal stem cells in mitigating radiation-induced pulmonary fibrosis. Scientific Reports, 2017, 7, 9056.	1.6	14
107	Optimal timing and frequency of bone marrow soup therapy for functional restoration of salivary glands injured by singleâ€dose or fractionated irradiation. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e1195-e1205.	1.3	14
108	Analytical modelling of regional radiotherapy dose response of lung. Physics in Medicine and Biology, 2012, 57, 3309-3321.	1.6	13

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109	Technical Note: Effect of explicit M and N -shell atomic transitions on a low-energy x-ray source. <i>Medical Physics</i> , 2016, 43, 1760-1763.	1.6	13
110	On a local (de-)trapping model for highly doped Pr^{3+} radioluminescent and persistent luminescent nanoparticles. <i>Nanoscale</i> , 2020, 12, 20759-20766.	2.8	13
111	Cellular Uptake, Cytotoxicity and Trafficking of Supported Lipid-Bilayer-Coated Lanthanide Upconverting Nanoparticles in Alveolar Lung Cancer Cells. <i>ACS Applied Bio Materials</i> , 2019, 2, 4527-4536.	2.3	12
112	Comparing local control and distant metastasis in NSCLC patients between CyberKnife and conventional SBRT. <i>Radiotherapy and Oncology</i> , 2020, 144, 201-208.	0.3	12
113	A fast Monte Carlo code for proton transport in radiation therapy based on MCNPX. <i>Journal of Medical Physics</i> , 2014, 39, 156.	0.1	12
114	Response of coaxial Ge(Li) detectors to narrow beams of photons for stripping of X-ray bremsstrahlung spectra. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1987, 258, 127-131.	0.7	11
115	Image quality for radiotherapy CT simulators with different scanner bore size. <i>Physica Medica</i> , 2018, 45, 65-71.	0.4	11
116	Robust mixed electron-photon radiation therapy optimization. <i>Medical Physics</i> , 2019, 46, 1384-1396.	1.6	11
117	Accurate determination of dose-point-kernel functions close to the origin using Monte Carlo simulations. <i>Medical Physics</i> , 2004, 31, 814-818.	1.6	10
118	Latent uncertainties of the precalculated track Monte Carlo method. <i>Medical Physics</i> , 2015, 42, 479-490.	1.6	10
119	Dose comparison between TG-43-based calculations and radiochromic film measurements of the Freiburg flap applicator used for high-dose-rate brachytherapy treatments of skin lesions. <i>Brachytherapy</i> , 2017, 16, 1065-1072.	0.2	10
120	Size-specific dose estimations for pediatric chest, abdomen/pelvis and head CT scans with the use of GATE. <i>Physica Medica</i> , 2019, 65, 181-190.	0.4	10
121	Density effects of silica aerogel insulation on the performance of a graphite probe calorimeter. <i>Medical Physics</i> , 2019, 46, 1874-1882.	1.6	10
122	Clinical Implication of Dosimetry Formalisms for Electronic Low-Energy Photon Intraoperative Radiation Therapy. <i>Practical Radiation Oncology</i> , 2021, 11, e114-e121.	1.1	10
123	Considerations and limitations of fast Monte Carlo electron transport in radiation therapy based on precalculated data. <i>Medical Physics</i> , 2009, 36, 530-540.	1.6	9
124	Radiochromic film-based quality assurance for CT-based high-dose-rate brachytherapy. <i>Brachytherapy</i> , 2015, 14, 578-585.	0.2	9
125	Mesenchymal Stem Cells Adopt Lung Cell Phenotype in Normal and Radiation-induced Lung Injury Conditions. <i>Applied Immunohistochemistry and Molecular Morphology</i> , 2016, 24, 283-295.	0.6	9
126	Cell extracts from spleen and adipose tissues restore function to irradiation-injured salivary glands. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1289-e1296.	1.3	9

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127	Doseâ€“response linearization in radiochromic film dosimetry based on multichannel normalized pixel value with an integrated spectral correction for scanner response variations. Medical Physics, 2019, 46, 5336-5349.	1.6	9
128	Dose measurements nearby low energy electronic brachytherapy sources using radiochromic film. Physica Medica, 2019, 64, 40-44.	0.4	9
129	Absolute dosimetry of a 1.5 T MRâ€“guided acceleratorâ€“based highâ€“energy photon beam in water and solid phantoms using Aarrow. Medical Physics, 2020, 47, 1291-1304.	1.6	9
130	The Rapidly-Developing Area of Radiocardiology: Principles, Complications and Applications of Radiotherapy on the Heart. Canadian Journal of Cardiology, 2021, 37, 1818-1827.	0.8	8
131	Experimental verification of beam quality in highâ€“contrast imaging with orthogonal bremsstrahlung	1.6	7
132	Image-Guided Fluorescence Endomicroscopy: From Macro- to Micro-Imaging of Radiation-Induced Pulmonary Fibrosis. Scientific Reports, 2017, 7, 17829.	1.6	7
133	Simultaneous trajectory generation and volumetric modulated arc therapy optimization. Medical Physics, 2020, 47, 3078-3090.	1.6	7
134	Ion chamber and filmâ€“based quality assurance of mixed electronâ€“photon radiation therapy. Medical Physics, 2021, 48, 5382-5395.	1.6	7
135	Response to stereotactic ablative radiotherapy in a novel orthotopic model of non-small cell lung cancer. Oncotarget, 2018, 9, 1630-1640.	0.8	7
136	Inverse optimization of lowâ€“cost kilovoltage xâ€“ray arc therapy plans. Medical Physics, 2018, 45, 5161-5171.	1.6	6
137	Investigating the impact of the CT Hounsfield unit range on radiomic feature stability using dual energy CT data. Physica Medica, 2021, 88, 272-277.	0.4	6
138	Comment on â€œReference radiochromic film dosimetry in kilovoltage photon beams during CBCT image acquisitionâ€•[Med. Phys. 37, 1083â€“1092 (2010)]. Medical Physics, 2010, 37, 3008-3008.	1.6	5
139	Monte Carlo investigation of collapsed versus rotated IMRT plan verification. Journal of Applied Clinical Medical Physics, 2014, 15, 133-147.	0.8	5
140	The role of medical physics in prostate cancer radiation therapy. Physica Medica, 2016, 32, 435-437.	0.4	5
141	Technical Note: Response time evolution of XR-QA2 GafChromicâ„¢ film models. Medical Physics, 2018, 45, 488-492.	1.6	5
142	Trajectoryâ€“based VMAT for cranial targets with delivery at shortened SAD. Medical Physics, 2020, 47, 3103-3112.	1.6	5
143	Monte Carlo and water calorimetric determination of kilovoltage beam radiotherapy ionization chamber correction factors. Physics in Medicine and Biology, 2020, 65, 105001.	1.6	5
144	Experimental validation of recommended <i>i</i> -msr</i>-correction factors for the calibration of Leksell Gamma Knife [®] Icon [™] unit following IAEA TRS-483. Physics in Medicine and Biology, 2020, 65, 065003.	1.6	5

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145	FDG-PET-based differential uptake volume histograms: a possible approach towards definition of biological target volumes. <i>British Journal of Radiology</i> , 2016, 89, 20150388.	1.0	4
146	Polarity and ion recombination corrections in continuous and pulsed beams for ionization chambers with high Z chamber walls. <i>Physica Medica</i> , 2017, 35, 102-109.	0.4	4
147	Reply to "Comments on the TRS483 Protocol on Small field Dosimetry" [Med. Phys. 45(12), 5666-5668 (2018)]. <i>Medical Physics</i> , 2018, 45, 5669-5671.	1.6	4
148	Investigating the role of functional imaging in the management of soft-tissue sarcomas of the extremities. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 6, 53-60.	1.2	4
149	Monte Carlo simulations of different CT X-ray energy spectra within CTDI phantom and the influence of its changes on radiochromic film measurements. <i>Physica Medica</i> , 2019, 62, 105-110.	0.4	4
150	Positional and angular tracking of HDR 192 Ir source for brachytherapy quality assurance using radiochromic film dosimetry. <i>Medical Physics</i> , 2020, 47, 6122-6139.	1.6	4
151	IAEA-AAPM TRS483-based reference dosimetry of the new RefleXion biology-guided radiotherapy (BgRT) machine. <i>Medical Physics</i> , 2021, 48, 1884-1892.	1.6	4
152	Monte Carlo calculation of the relative TG-43 dosimetry parameters for the INTRABEAM electronic brachytherapy source. <i>Physics in Medicine and Biology</i> , 2020, 65, 245041.	1.6	4
153	Special section: Selected papers from the Fourth International Workshop on Recent Advances in Monte Carlo Techniques for Radiation Therapy. <i>Physics in Medicine and Biology</i> , 2012, 57, .	1.6	3
154	A source model for modulated electron radiation therapy using dynamic jaw movements. <i>Medical Physics</i> , 2013, 40, 051707.	1.6	3
155	Time-resolved diode dosimetry calibration through Monte Carlo modeling for <i>in vivo</i> passive scattered proton therapy range verification. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 200-205.	0.8	3
156	Radio-selective effects of a natural occurring muscle-derived dipeptide in A549 and normal cell lines. <i>Scientific Reports</i> , 2019, 9, 11513.	1.6	3
157	Monte Carlo calculated kilovoltage x-ray arc therapy plans for three lung cancer patients. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 065022.	0.6	3
158	Monte Carlo calculation of the TG-43 dosimetry parameters for the INTRABEAM source with spherical applicators. <i>Physics in Medicine and Biology</i> , 2021, 66, 215017.	1.6	3
159	Fluorescence Endomicroscopy Imaging of Mesenchymal Stem Cells in the Rat Lung. <i>Current Protocols in Stem Cell Biology</i> , 2018, 45, e52.	3.0	2
160	Modeling the primary source intensity distribution: reconstruction and inter-comparison of six Varian TrueBeam sources. <i>Physics in Medicine and Biology</i> , 2019, 64, 135005.	1.6	2
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